Figure 1.0 A Personal Computer Running an Example Electronic Spreadsheet Window

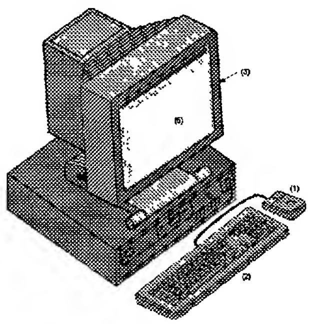

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Figure 2.0 Typical Electronic Spreadsheet Windows without Data

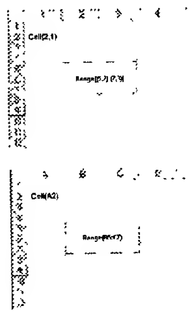

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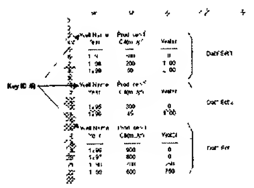
Figure 3.0 A Data Spreadsheet with Key-ID in the Original Data File



[illegible] Well Name [illegible] a Key-ID to divide the database [illegible] 3 data [illegible] data construct.

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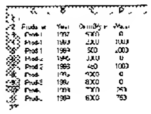
Figure 3.1 A Data Spreadsheet without an Obvious Key-ID



Product	Year	Quantity	[illegible]
Prod1	1997	5000	0
Prod1	[illegible]	2000	1000
Prod1	[illegible]	500	2000
Prod2	1996	[illegible]	0
Prod2	1998	450	1000
[illegible]	[illegible]	4000	0
[illegible]	[illegible]	8000	0
[illegible]	[illegible]	7000	750
[illegible]	[illegible]	6000	750

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Figure 3.2 A Data Spreadsheet Using an Inserted Key-ID to form Separate Data Sets

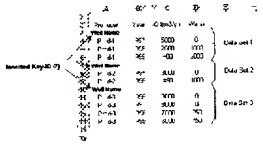


Figure 3.3 Flow Chart of Macro Program for Inserting Key-ID

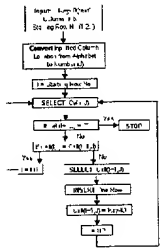
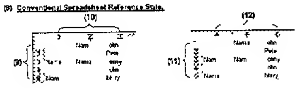


Figure 4.0 Cell Collection Expression vs. Conventional Spreadsheet Reference Style for Cell Identification

(9) Conventional Spreadsheet Reference Style.



(13) Cell Collection Expression (CCE) vs. Conventional Cell Reference for Cell Identification

- Cell Collection Expression: Cell(Key-ID,Region-ID)
- Conventional Cell Reference: Cell(Row No.,Column No.) or Cell(Column Letter Row No.) or Range(Upper Left Cell:Lower Right Cell)

Example	Cell Collection Expression	Conventional Cell Reference	Cell Content
1	Cell(Name E')	[illegible](1,2) [illegible](B1)	Name
		Cell(3,2) [illegible](B3)	Name
2	Cell(Name J)	Cell(1,1) [illegible](A1)	Name
		Cell(3,2) [illegible](B3)	Name
		Range(A3:B3) or Range(Cell(3,1):Cell(3,2))	Name
[illegible]	Cell(Name [illegible])	Cell(3,1) [illegible](A3)	Name
		Cell(4,1) [illegible](A4)	Name
		[illegible](1,2) [illegible](B1)	Name
		[illegible](3,2) [illegible](B3)	Name

Figure 5.0 Cell Collection Expression Used to Represent or Identify the Cells containing the Key-ID

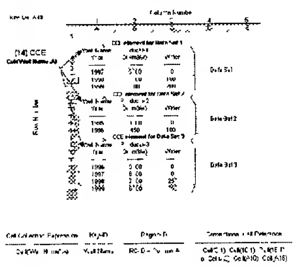


Figure 5.1 Standard Coordinate System Assignment to a CCE element (1st Data Set)

Standard Coordinate System assigned to a CCE element with point of origin (0,0) in Data Set 1

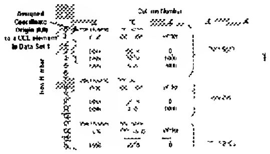


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Figure 6.2 Standard Coordinate System Assignment to a CCE element (2nd Data Set)

Standard Coordinate System assigned to a CCE element with point of origin (0,0) in Data Set 2

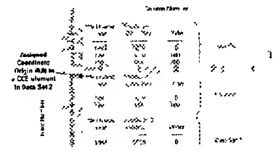
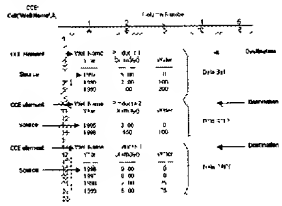


Figure 6.0- Example- Performing a 'Copy Paste' Operation on a Spreadsheet



Source and Destination relative locations to CCE element origin in each Data Set:

Key ID: Well Name

Region ID: [illegible]

Source to CCE element: [illegible]

Destination to CCE element: [illegible]

Figure 6 1 Results of a "Copy Paste Operation

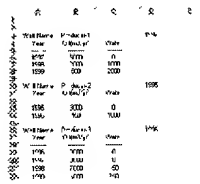


Figure 6.2 Generalized "Copy Paste" Operation Flow Chart for a Search Region in a User Specified Column